

STAT

25 July 1963

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Subject: [] Proposal []

Dear John:

Enclosed are two (2) drawings of proposed X-Y motion stage as discussed [] on 11 July 1963 []

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The following changes to the 'Y' carriage and a description of the stage follow as shown in Figure 1 and Figure 2.

The platten of the substage will comprise of a micro-grooved, optically flat glass movable on an X and Y axis for plus and minus 1/4 inch after being clamped in a fixed location.

The clear glass area is 5 x 5 inches, with one edge of the clear area to be used as a guiding edge for the film chip. The X and Y stages are held firmly, on their respective ways, by spring load to eliminate shift after positioning. Motion will be imparted to the stages through two (2) commercially available 1/2 travel micrometers. The traveling arbor on the micrometer will be retained to its corresponding slide through backlash free spring loaded anchor.

As a result of this proposed change, the 'Y' carriage will increase in weight by approximately 25 pounds and increase in width by about 5 inches. The overall size of the comparator will not change. Enlargement of the 'Y' carriage is needed to accommodate the rotational and placement features of the stage about microscope objective to compensate for minimum 75% overlap.

One side of the bed of the carriage will be changed to contain 1/4 x 1" steel bars mounted on bosses cast in the mechanite casting. Suitable clamps for hold down can be placed for anchorage anywhere within the area shown on Figure 2. The clamp will fasten through the knurl nut on the strips while the opposite end will rest on a lip bordering the stage on four (4) sides. Estimated cost for the change in the proposal [] An analysis of these costs is attached.

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Declass Review by NIMA / DoD

Very truly yours,

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P.S. John:

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We have not received microscope drawings

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Atts: Cost Analysis (1)
Drawings (2)